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RAW SEQUENCE LISTING
PATENT APPLICATION US/08/656,811ADATE: 02/07/97
TIME: 16:32:23

INPUT SET: S15387.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

#7

SEQUENCE LISTING

ENTERED

1

2

3 (1) General Information:

4

5 (i) APPLICANT: Bartsch, Dusan
6 Kandel, Eric R.
7 Ghirardi, Mirella

8

9 (ii) TITLE OF INVENTION: A METHOD FOR ENHANCING LONG-TERM MEMORY IN A
10 SUBJECT AND USES THEREOF

11

12 (iii) NUMBER OF SEQUENCES: 20

13

14 (iv) CORRESPONDENCE ADDRESS:

15 (A) ADDRESSEE: Cooper & Dunham LLP
16 (B) STREET: 1185 Avenue of the Americas
17 (C) CITY: New York
18 (D) STATE: New York
19 (E) COUNTRY: U.S.A.
20 (F) ZIP: 10036

21

22 (v) COMPUTER READABLE FORM:

23 (A) MEDIUM TYPE: Floppy disk
24 (B) COMPUTER: IBM PC compatible
25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

27

28 (vi) CURRENT APPLICATION DATA:

29 (A) APPLICATION NUMBER:
30 (B) FILING DATE:
31 (C) CLASSIFICATION:

32

33 (viii) ATTORNEY/AGENT INFORMATION:

34 (A) NAME: White, John P.
35 (B) REGISTRATION NUMBER: 28,678
36 (C) REFERENCE/DOCKET NUMBER: 50865/JPW/JML

37

38 (ix) TELECOMMUNICATION INFORMATION:

39 (A) TELEPHONE: 212-278-0400
40 (B) TELEFAX: 212-391-0525

41

42

43 (2) INFORMATION FOR SEQ ID NO:1:

44

45 (i) SEQUENCE CHARACTERISTICS:

46 (A) LENGTH: 379 amino acids

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47 (B) TYPE: amino acid
48 (C) STRANDEDNESS: single
49 (D) TOPOLOGY: linear
50
51 (ii) MOLECULE TYPE: peptide
52
53
54
55
56 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
57
58 Met Glu Leu Asp Leu Trp Ser Glu Asp Phe Gln Leu Ala Arg Glu Trp
59 1 5 10 15
60
61 Gly Leu Glu Met Pro Val Val Gln Thr Asp Gly Gln Phe Gly Asp Leu
62 20 25 30
63
64 Lys Ser Thr Ser Arg His Gly Gly Asp Glu Ser Leu Ser Leu Gln Pro
65 35 40 45
66
67 Gln Gly Ala Thr Leu Lys Leu Glu Pro Phe Glu Glu Asp Val Leu Gly
68 50 55 60
69
70 Ala Glu Trp Met Glu Ser Ser Asp Leu Gly Ser Phe Leu Asp Ala Leu
71 65 70 75 80
72
73 Gly Asp Asn His Glu Arg Leu His Pro Phe Glu Ser Asn Leu Leu Glu
74 85 90 95
75
76 Phe Thr Ser Leu Ile Thr Pro Asp Asp Ser Thr Val Ser Lys Asp Ile
77 100 105 110
78
79 Leu Ser Ser Thr Leu Gln Phe Pro Thr Gln Pro Val Asn Ile Pro Leu
80 115 120 125
81
82 Tyr Ala Ser His Gly Ala Glu Asp Phe Ser Ala Glu Thr Glu Phe Glu
83 130 135 140
84
85 Asn His Leu Ser Pro Pro Asp Ser Pro Glu Gln Val Ala Pro Val Ile
86 145 150 155 160
87
88 Asn Leu Glu Pro Val Glu Leu Thr Ala Ser His Met Thr Val Ile Ser
89 165 170 175
90
91 Pro Asp Gly Leu Leu Gly Gly Met Glu Leu Ala Ser Glu Ser Leu Thr
92 180 185 190
93
94 Phe Thr Glu Leu Asp Phe Val Asn Phe Asn Asp Ser Ala Val Gly Ser
95 195 200 205
96
97 Ile Gly Gly Ala Glu Glu Leu Leu Gly Ser Pro Leu Ser Val Asp Asp
98 210 215 220
99

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100 Val Glu Ser Thr Ile Ser Phe Ser Gly Pro Ser Ser Pro Glu Thr Ser
101 225 230 235 240
102
103 Gln Ser Ser Ile Ile Glu Ser Ser Pro Glu Leu Tyr Lys Val Ile Ser
104 245 250 255
105
106 Thr Ser Ser Ile Asp Ala Ser Lys Arg Phe Ser Pro Tyr Ser Arg Ser
107 260 265 270
108
109 Ser Lys Ser Lys Gln Ser Val Lys Thr Ser Asp Ala Lys Ala Pro Arg
110 275 280 285
111
112 Lys Thr Arg Thr Pro Ala Gln Pro Val Pro Glu His Val Ile Met Glu
113 290 295 300
114
115 His Leu Asp Lys Lys Asp Arg Lys Lys Leu Gln Asn Lys Asn Ala Ala
116 305 310 315 320
117
118 Ile Arg Tyr Arg Met Lys Lys Gly Glu Ala Gln Gly Ile Lys Gly
119 325 330 335
120
121 Glu Glu Gln Glu Leu Glu Leu Asn Thr Lys Leu Lys Thr Lys Val
122 340 345 350
123
124 Asp Asp Leu Gln Arg Glu Ile Lys Tyr Met Lys Asn Leu Met Glu Asp
125 355 360 365
126
127 Val Cys Lys Ala Lys Gly Ile Gln Leu Lys Met
128 370 375
129
130
131 (2) INFORMATION FOR SEQ ID NO:2:
132
133 (i) SEQUENCE CHARACTERISTICS:
134 (A) LENGTH: 73 amino acids
135 (B) TYPE: amino acid
136 (C) STRANDEDNESS: single
137 (D) TOPOLOGY: linear
138
139 (ii) MOLECULE TYPE: peptide
140
141
142
143
144 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
145
146 Leu Asp Lys Lys Asp Arg Lys Lys Leu Gln Asn Lys Asn Ala Ala Ile
147 1 5 10 15
148
149 Arg Tyr Arg Met Lys Lys Gly Glu Ala Gln Gly Ile Lys Gly Glu
150 20 25 30
151
152 Glu Gln Glu Leu Glu Leu Asn Thr Lys Leu Lys Thr Lys Val Asp

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153 35 40 45
154
155 Asp Leu Gln Arg Glu Ile Lys Tyr Met Lys Asn Leu Met Glu Asp Val
156 50 55 60
157
158 Cys Lys Ala Lys Gly Ile Gln Leu Lys
159 65 70
160
161
162 (2) INFORMATION FOR SEQ ID NO:3:
163
164 (i) SEQUENCE CHARACTERISTICS:
165 (A) LENGTH: 8 base pairs
166 (B) TYPE: nucleic acid
167 (C) STRANDEDNESS: single
168 (D) TOPOLOGY: linear
169
170 (ii) MOLECULE TYPE: DNA (genomic)
171
172
173
174
175 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
176
177 TGACGGTCA 8
178
179 (2) INFORMATION FOR SEQ ID NO:4:
180
181 (i) SEQUENCE CHARACTERISTICS:
182 (A) LENGTH: 14 base pairs
183 (B) TYPE: nucleic acid
184 (C) STRANDEDNESS: single
185 (D) TOPOLOGY: linear
186
187 (ii) MOLECULE TYPE: DNA (genomic)
188
189
190
191
192 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
193
194 AGTATTGCGT CATC 14
195
196 (2) INFORMATION FOR SEQ ID NO:5:
197
198 (i) SEQUENCE CHARACTERISTICS:
199 (A) LENGTH: 14 base pairs
200 (B) TYPE: nucleic acid
201 (C) STRANDEDNESS: single
202 (D) TOPOLOGY: linear
203
204 (ii) MOLECULE TYPE: DNA (genomic)
205

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206
207
208
209 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
210
211 ACTATTGCGC AATC 14
212
213 (2) INFORMATION FOR SEQ ID NO:6:
214
215 (i) SEQUENCE CHARACTERISTICS:
216 (A) LENGTH: 20 base pairs
217 (B) TYPE: nucleic acid
218 (C) STRANDEDNESS: single
219 (D) TOPOLOGY: linear
220
221 (ii) MOLECULE TYPE: DNA (genomic)
222
223
224
225
226 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
227
228 TTCCGCTTTC CATAAGTCGA 20
229
230 (2) INFORMATION FOR SEQ ID NO:7:
231
232 (i) SEQUENCE CHARACTERISTICS:
233 (A) LENGTH: 20 base pairs
234 (B) TYPE: nucleic acid
235 (C) STRANDEDNESS: single
236 (D) TOPOLOGY: linear
237
238 (ii) MOLECULE TYPE: DNA (genomic)
239
240
241
242
243 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
244
245 ACCTGAAAAT GATATTGTAC 20
246
247 (2) INFORMATION FOR SEQ ID NO:8:
248
249 (i) SEQUENCE CHARACTERISTICS:
250 (A) LENGTH: 37 base pairs
251 (B) TYPE: nucleic acid
252 (C) STRANDEDNESS: single
253 (D) TOPOLOGY: linear
254
255 (ii) MOLECULE TYPE: DNA (genomic)
256
257
258

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Original Text